Lab Dept: Chemistry

Test Name: METHSUXIMIDE LEVEL

**General Information**

Lab Order Codes: CELO (MedTox)

Synonyms: Desmethylmethsuximide, or Celontin®

CPT Codes: G0480 – Drug, test, definitive
OR
80339 – Antiepileptics, not otherwise specified; 1-3

Test Includes: Methsuximide (Desmethylmethsuximide) concentrations measured in ug/mL.

**Logistics**

Test Indications: Anti-epileptic (anticonvulsant) therapeutic drug monitoring, optimizing dosage and assessing toxicity.

Lab Testing Sections: Chemistry - Sendouts

Referred to: MedTox Laboratories (MedTox Test: 78)

Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 3 days, performed daily

Special Instructions: If this is a STAT order, please check with the provider to see if the specimen should be shipped immediately and performed STAT by the reference lab at an additional cost. If immediate shipment is necessary, please call the lab to make arrangements.

**Specimen**

Specimen Type: Blood

Container: Red NO GEL tube
Alternate: Green NO GEL (Lithium Heparin) tube

Draw Volume: 6 mL (Minimum: 0.6 mL) blood
**Processed Volume:** 2 mL (Minimum: 0.2 mL) serum/plasma

*Note:* Submission of the minimum volume may result in an elevated reporting limit and inability to repeat analysis.

**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Specimens other than serum/plasma; mislabeled or unlabeled specimens

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**Interpretive**

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<tr>
<th>Reference Range:</th>
<th>Celontin/Desmethylmethsuximide: 10 - 40 ug/mL</th>
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**Critical Values:** Desmethylmethsuximide: ≥55 ug/mL

**Limitations:** Reporting limit: 1.0 ug/mL

Submission of the minimum volume may result in an elevated reporting limit and inability to repeat analysis.

**Methodology:** Gas Chromatography/Flame Ionization Detection (GC-FID)

**References:** MedTox Laboratories December 2017

**Updates:**
- 1/7/2015: CPT update
- 2/1/2016: CPT update
- 11/4/2016: Tube update, CPT update